

## Wyandotte County

### Estimated Economic Contribution of Agriculture, Food, and Food Processing Sectors 6/28/2019

Using the most recent IMPLAN data available (2017) adjusted for 2019, 37 agriculture, food, and food processing sectors were analyzed to determine their overall contribution to the Wyandotte County economy.<sup>1</sup>

These 37 sectors have a total direct output of approximately **\$1.21 billion** and support **3,345 jobs** in Wyandotte County. Running the model for all 37 sectors simultaneously produces the following results:

Agriculture, Food, and Food Processing Sector Contribution to Overall Wyandotte County Economy					
Contribution Type <sup>2</sup>	Employment	% Employment	Total Value Added <sup>3</sup>	Total Value Added % of Gross Regional Product <sup>4</sup>	Output <sup>5</sup>
Direct Effect	3344.7	2.98%	\$302,860,023	2.78%	\$1,211,601,809
Indirect Effect	1441.1	1.28%	\$147,628,546	1.36%	\$258,758,670
Induced Effect	593.7	0.53%	\$47,328,968	0.44%	\$81,540,884
<b>Total Effect</b>	<b>5379.4</b>	<b>4.79%</b>	<b>\$497,817,537</b>	<b>4.58%</b>	<b>\$1,551,901,363</b>

As shown in the above table, agriculture, food, and food processing sectors support **5,379 jobs**, or **4.79%** of the entire workforce in the county.

Another metric used to calculate the importance of sectors in an economy is their value added as a percentage of GRP. Total value added by the 37 agriculture, food, and food processing sectors is approximately **\$497.8 million**, or **4.58% of the GRP**.

The following tables document the top industries affected by employment and output, as well as a listing of all industries that were analyzed.

<sup>1</sup> Article on building a contribution analysis in IMPLAN that avoids double counting:

[http://www.implan.com/index.php?option=com\\_content&view=article&id=660%3A660&catid=253%3AKB33&Itemid=70](http://www.implan.com/index.php?option=com_content&view=article&id=660%3A660&catid=253%3AKB33&Itemid=70)

<sup>2</sup> Direct, indirect, and induced effects sum together to estimate the total economic contribution in the state. **Direct effects** capture the contribution from agricultural and food products. **Indirect effects** capture the economic benefit from farms and agricultural businesses purchasing inputs from supporting industries within the state. **Induced effects** capture the benefits created when employees of farms, agricultural businesses, and the supporting industries spend their wages on goods and services within the state.

<sup>3</sup> Value added = labor income + indirect business taxes + other property type income.

<sup>4</sup> GRP = final demand of households + governments expenditures + capital + exports - imports - institutional sales.

<sup>5</sup> Output = intermediate inputs + value added.

In the top ten agriculture, food, and food processing sectors by employment, the landscape and horticultural services sector is the top employer with **900 employees**. This table also shows the amount of jobs that are created by the agriculture industry in Wyandotte County.

Top Ten Agriculture, Food, and Food Processing Sectors by Employment		
Sector	Total Employment	Total Output
Landscape and horticultural services	900.3	\$63,324,395
Meat processed from carcasses	493.2	\$250,558,889
Bread and bakery product, except frozen, manufacturing	456.1	\$65,235,980
Wholesale trade	438.9	\$87,426,273
Cookie and cracker manufacturing	335.8	\$126,926,535
Truck transportation	220.4	\$38,931,648
Dry pasta, mixes, and dough manufacturing	159.5	\$104,907,910
Other animal food manufacturing	124.8	\$156,194,003
Rendering and meat byproduct processing	124.8	\$59,668,001
Food product machinery manufacturing	87.0	\$26,814,895

The meat processed from carcasses sector directly contributes approximately **\$250.6 million** to the Wyandotte County economy. The table below also shows the amount of revenue that is generated in other industries by having a strong agriculture industry.

Top Ten Agriculture, Food, and Food Processing Sectors by Output		
Sector	Total Employment	Total Output
Meat processed from carcasses	493.2	\$250,558,889
Other animal food manufacturing	124.8	\$156,194,003
Cookie and cracker manufacturing	335.8	\$126,926,535
Dry pasta, mixes, and dough manufacturing	159.5	\$104,907,910
Wholesale trade	438.9	\$87,426,273
Dog and cat food manufacturing	54.9	\$68,314,065
Bread and bakery product, except frozen, manufacturing	456.1	\$65,235,980
Landscape and horticultural services	900.3	\$63,324,395
Rendering and meat byproduct processing	124.8	\$59,668,001
Fats and oils refining and blending	33.0	\$50,612,775

Below is a summary of all agriculture data with employment levels and output level. These values can tell how many jobs are represented by each agriculture, food, and food processing sector and the output they contributed to the Wyandotte County economy.

<b>All Agriculture, Food, and Food Processing Sectors</b>		
<b>Sector</b>	<b>Total Employment</b>	<b>Total Output</b>
Oilseed farming	6.2	\$1,633,554.46
Grain farming	10.1	\$906,400.92
Vegetable and melon farming	3.1	\$335,581.36
Fruit farming	3.0	\$157,884.64
Tree nut farming	0.0	\$38.93
Greenhouse, nursery, and floriculture production	2.5	\$244,360.88
All other crop farming	3.6	\$70,533.13
Beef cattle ranching and farming, including feedlots and dual-purpose ranching and farming	52.4	\$1,448,115.83
Poultry and egg production	0.5	\$188,644.96
Animal production, except cattle and poultry and eggs	48.7	\$1,587,068.68
Support activities for agriculture and forestry	13.1	\$229,982.48
Dog and cat food manufacturing	54.9	\$68,314,064.03
Other animal food manufacturing	124.8	\$156,194,000.24
Flour milling	32.6	\$38,593,185.42
Fats and oils refining and blending	33.0	\$50,612,773.90
Frozen fruits, juices and vegetables manufacturing	61.6	\$25,983,922.96
Canned fruits and vegetables manufacturing	43.6	\$19,919,370.65
Meat processed from carcasses	493.2	\$250,558,898.93
Rendering and meat byproduct processing	124.8	\$59,668,003.08
Bread and bakery product, except frozen, manufacturing	456.1	\$65,235,977.17
Frozen cakes and other pastries manufacturing	4.6	\$731,999.64
Cookie and cracker manufacturing	335.8	\$126,926,528.93
Dry pasta, mixes, and dough manufacturing	159.5	\$104,907,905.58
Tortilla manufacturing	2.7	\$551,444.83
Roasted nuts and peanut butter manufacturing	50.8	\$31,153,623.58
All other food manufacturing	32.9	\$10,748,611.45
Bottled and canned soft drinks & water	18.3	\$12,789,613.72
Other leather and allied product manufacturing	0.9	\$112,580.08
Sawmills	16.6	\$4,123,551.37
Nitrogenous fertilizer manufacturing	28.7	\$33,592,842.10
Pesticide and other agricultural chemical manufacturing	20.1	\$27,088,478.09
Farm machinery and equipment manufacturing	32.9	\$13,418,615.34
Food product machinery manufacturing	87.0	\$26,814,893.72
Sawmill, woodworking, and paper machinery	9.3	\$2,280,175.92
All other industrial machinery manufacturing	19.5	\$5,125,799.18
Veterinary services	56.6	\$6,028,379.92
Landscape and horticultural services	900.3	\$63,324,394.23

All 105 counties in Kansas have an IMPLAN model and an agriculture, food, and food processing contribution summary. These values do not factor in the retail environment of food sales. Food retail is important, but in order to provide the most accurate picture of what production agricultural and processing contributes to Wyandotte County, the retail sector was omitted.